## IN THE CLAIMS

Please cancel claims 4, 15, and 16 without prejudice.

Please amend claims 1, 13, and 18 as follows:

 (Currently Amended) A computer-implemented method for estimating a background color of a scanned image, comprising:

generating a frequency distribution of pixel colors for each axis scan line in a first direction and for each axis scan line in a second direction of the scanned image, wherein each axis scan line in the first direction and each axis scan line in the second direction are not orthogonal to each other;

compiling of <u>a</u> list <u>of</u> candidate colors based on the frequency distributions; determining a most common candidate color from the list of candidate colors; and

designating the most common candidate color as the estimated background color.

- 2. (Original) The computer-implemented method of claim 1, wherein each frequency distribution is a histogram.
- 3. (Original) The computer-implemented method of claim 1, wherein each axis scan line in the first direction and each axis scan line in the second direction is at least one of: (a) a row of pixels in the scanned image; (b) a column of pixels in the scanned image.
  - 4. (Canceled)
- 5. (Original) The computer-implemented method of claim 1, further comprising determining a most common pixel color for each of the frequency distributions.
- 6. (Original) The computer-implemented method of claim 5, further comprising designating the most common pixel color of each frequency distribution as a candidate

color if a frequency value of the most common pixel color is approximately greater than a frequency threshold.

- 7. (Original) The computer-implemented method of claim 6, wherein the frequency threshold is approximately .9 or 90%.
- 8. (Original) The computer-implemented method of claim 1, further comprising determining a variance of the estimated background color.
- 9. (Original) The computer-implemented method of claim 1, wherein generating a frequency distribution of pixel colors further comprises computing a histogram of pixel colors for each row and column in the scanned image.
- 10. (Original) The computer-implemented method of claim 9, further comprising obtaining a variance of the estimated background color from its histogram and using the variance in another image processing technique used on the scanned image.
- 11. (Original) The computer-implemented method of claim 1, further comprising dividing the scanned image into separate color components and estimating a background color for each of the color components.
- 12. (Original) A computer-readable medium having computer-executable instructions for performing the computer-implemented method recited in claim 1.
- 13. (Currently Amended) A computer-readable medium having computerexecutable instructions for processing a scanned image containing objects to obtain a background color of the scanned image, comprising:

computing a histogram of pixel colors for each row and each column of the scanned image;

determining a most common pixel color in each histogram by examining

pixel frequency values;

designating a pixel color of the <u>each</u> histogram <u>as</u> a candidate background color when a pixel frequency value of the pixel color is greater than a frequency threshold:

adding the candidate background color to a list of candidate background colors:

computing a most common candidate background color in the candidate background color list; and

designating the most common candidate background color as an estimated background color;

estimating a variance of the estimated background color by examining the associated histogram; and

detecting and segregating the objects within the scanned image using the variance of the estimated background color.

- 14. (Original) The computer-readable medium of claim 13, wherein the frequency threshold is at least approximately 90% of all pixels in the histogram.
  - 15. (Canceled)
  - 16. (Canceled)
- 17. (Original) The computer-readable medium of claim 13, wherein the scanned image is a color image and further comprising separating the scanned image into red, blue and green image planes and estimating a background color for each of the image planes.

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18. (Currently Amended) A background color estimation system for estimating a background color of a scanned image, comprising:

a first axis scan line in a first direction and a second axis scan line in a second direction, the first axis scan line and the second axis scan line being non-orthogonal to each other;

a candidate color extractor that extracts candidate background colors from the scanned image by computing a frequency distribution of pixel colors for a <u>the</u> first axis scan line and a <u>the</u> second axis scan line of the scanned image;

a candidate color list that is populated with candidate background colors extracted by the candidate color extractor; and

a candidate color frequency module that examines the candidate color list and designates the most common candidate color in the list as the estimated background color.

- 19. (Original) The background color estimation system as set forth in claim 18, wherein the candidate color extractor further comprises a color component separator that separates the scanned image into color components or planes.
- 20. (Original) The background color estimation system as set forth in claim 18, wherein the candidate color extractor further comprises a coordinate system selector that selects a coordinate system to be used on the scanned image.
- 21. (Original) The background color estimation system as set forth in claim 20, further comprising a coordinate scanning module that scans the scanned image along the first and second axis scan lines of the coordinate system such that each pixel in the scanned image is examined.
- 22. (Original) The background color estimation system as set forth in claim 18, wherein the frequency distribution is a histogram.

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- 23. (Original) The background color estimation system as set forth in claim 18, further comprising a frequency distribution analyzer that analyzes the frequency distribution generated by the frequency distribution generator to extract certain properties.
- 24. (Original) The background color estimation system as set forth in claim 23, wherein the properties include at least one of: (a) a color of each pixel along a row or column of the scanned image; (b) a frequency value for each pixel color; (c) a variance of each pixel color.